

**PATENT**

Docket No. 5634.312

**THE UNITED STATES PATENT AND TRADEMARK OFFICE**Inventors: John C. Harvey and James W.  
Cuddihy

Serial No.: 08/477,711

Filing Date: June 7, 1995

For: Signal Processing Apparatus and  
Methods

Group Art Unit:

Examiner:

Assistant Commissioner of Patents  
Washington D.C. 20231**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a) and in conformance with the procedures of 37 C.F.R. §§ 1.97-98 and M.P.E.P. § 609, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449.

The above-referenced application claims priority under 35 U.S.C. § 120 of the following applications:

| <u>Serial No.</u> | <u>Filing Date</u> | <u>Patent No.</u> |
|-------------------|--------------------|-------------------|
| 08/113,329        | August 30, 1993    | Pending           |
| 08/056,501        | May 3, 1993        | 5,335,277         |
| 07/849,226        | March 10, 1992     | 5,233,654         |
| 07/588,126        | September 25, 1990 | 5,109,414         |
| 07/096,096        | September 11, 1987 | 4,965,825         |
| 06/829,531        | February 14, 1986  | 4,704,725         |

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06/317,510

November 3, 1981

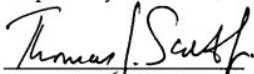
4,694,490

Applicants believe that all references cited on the attached PTO 1449 form were cited by or submitted to the PTO in one or more of the priority applications. Therefore, no copies of the listed references are provided herewith. It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

CERTIFICATION AND/OR FEE

Since this IDS is being filed pursuant to 37 C.F.R. § 1.97(b) before the later of three months after the filing date of the above-referenced application or the date of receipt of the first Office action on the merits, no certification or fee is required.

Respectfully submitted,



Thomas J. Scott, Jr. (Reg. No. 27,836)

Dated: September 5, 1995

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|   |   |                        |
|---|---|------------------------|
| <b>PTO 1449</b><br><b>INFORMATION DISCLOSURE</b><br><b>STATEMENT BY APPLICANT</b><br><br><b>Title: Signal Processing Apparatus and Method</b> | Attorney Docket No.<br>5634.312                   | Serial No.<br>08477711 |
|   | Applicants<br>John C. Harvey and James W. Cuddihy |                        |
|   | Filing Date:<br>June 7, 1995                      | Group:                 |
|   |   |                        |

**U.S. Patent Documents**

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE    | NAME            | CLASS/ SUBCLASS | FILING DATE* |
|------------------|---------------|----------------|-----------------|-----------------|--------------|
|                  | 2,511,085     | June 13, 1950  | Smith           | 179/1           |              |
|                  | 2,573,349     | Oct. 30, 1951  | Miller et al.   | 177/353         |              |
|                  | 2,769,023     | Oct. 30, 1956  | Loew et al.     | 178/5.1         |              |
|                  | 2,788,387     | Apr. 9, 1957   | Druz            | 178/5.1         |              |
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|                  | 2,866,962     | Dec. 30, 1958  | Ellet           | 340/147         |              |
|                  | 3,016,091     | Jan. 9, 1962   | Daniels         | 162/391         |              |
|                  | 3,071,642     | Jan. 1, 1963   | Mountjoy et al. | 178/5.1         |              |
|                  | 3,213,201     | Oct. 19, 1965  | Flood et al.    | 179/15          |              |
|                  | 3,238,297     | Mar. 1, 1966   | Pawley et al.   | 178/22          |              |
|                  | 3,363,250     | Jan. 9, 1968   | Jacobson        | 343/225         |              |
|                  | 3,493,674     | Feb., 1970     | Houghton        | 178/5.6         |              |
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|                  | 3,536,833     | Oct. 27, 1970  | Guanella        | 178/22          |              |
|                  | 3,569,937     | Mar. 9, 1971   | Hoetter         | 340/171         |              |
|                  | 3,573,747     | Apr. 6, 1971   | Adams et al.    | 340/172.5       |              |
|                  | 3,584,142     | June 8, 1971   | Schoeffler      | 178/6.8         |              |
|                  | 3,601,528     | Aug. 24, 1971  | McVoy           | 178/5.1         |              |
|                  | 3,609,697     | Sept. 28, 1971 | Blevins et al.  | 340/172.5       |              |
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|---|--------------------------|-----------------|------------|
| EXAMINER  | /Chan Park/ (07/23/2010) | DATE CONSIDERED | 07/23/2010 |
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.P./

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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> | Attorney Docket No.<br>5634.312                   | Serial No.<br>08/477,711 |
|  | Applicants<br>John C. Harvey and James W. Cuddihy |                          |
|  | Filing Date:<br>June 7, 1995                      | Group:                   |
| <b>Title: Signal Processing Apparatus<br/>and Method</b> |   |                          |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE    | NAME            | CLASS/ SUBCLASS | FILING DATE* |
|------------------|---------------|----------------|-----------------|-----------------|--------------|
|                  | 3,659,046     | Apr. 25, 1972  | Angeleri et al. | 178/22          |              |
|                  | 3,668,307     | June 6, 1972   | Face et al.     | 178/5.6         |              |
|                  | 3,684,823     | Aug. 15, 1972  | McVoy           | 178/5.1         |              |
|                  | 3,693,090     | Sept. 19, 1972 | Gabriel         | 325/308         |              |
|                  | 3,703,684     | Nov. 21 1972   | McVoy           | 325/31          |              |
|                  | 3,725,672     | Apr. 3, 1973   | Reuter          | 307/208         |              |
|                  | 3,729,581     | Apr. 24, 1973  | Anderson        | 178/6.8         |              |
|                  | 3,731,197     | May 1, 1973    | Clark           | 325/32          |              |
|                  | 3,733,430     | May 15, 1973   | Thompson et al. | 178/5.1         |              |
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|                  | 3,749,845     | July 31, 1973  | Fraser          | 179/15          |              |
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|                  | 3,757,225     | Sep. 4, 1973   | Ukicki          | 325/308         |              |
|                  | 3,773,977     | Nov. 20, 1973  | Guanella        | 179/1.5         |              |
|                  | 3,777,053     | Dec. 4, 1973   | Wittig et al.   | 178/5.1         |              |
|                  | 3,789,137     | Jan. 29, 1974  | Newell          | 178/6.6         |              |
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|                  | 3,798,359     | Mar. 19, 1974  | Feistel         | 178/22          |              |
|                  | 3,798,610     | Mar. 19, 1974  | Bliss et al.    | 340/172.5       |              |
|                  | 3,803,491     | Apr. 9, 1974   | Osborn          | 325/53          |              |

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|  | Filing Date:<br>June 7, 1995                      | Group:                   |

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|------------------|---------------|---------------|------------------|--------------------|--------------|
|                  | 3,806,814     | Apr. 23, 1974 | Forbes           | 325/309            |              |
|                  | 3,819,852     | June 25, 1974 | Wolf             | 178/5.6            |              |
|                  | 3,824,332     | July 16, 1974 | Horowitz         | 178/5.1            |              |
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|                  | 3,833,757     | Sept. 3, 1974 | Kirk, Jr. et al. | 178/5.6            |              |
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|                  | 3,842,196     | Oct. 15, 1974 | Louglin          | 358/12             |              |
|                  | 3,845,391     | Oct. 29, 1974 | Crosby           | 325/64             |              |
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|                  | 3,885,089     | May 20, 1975  | Callais et al.   | 178/5.1            |              |
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|                  | 3,891,792     | June 24, 1975 | Kimura           | 178/5.8R           |              |
|                  | 3,893,031     | July 1, 1975  | Majeau et al.    | 325/32             |              |
|                  | 3,894,176     | July 8, 1975  | Mellon           | 178/5.1            |              |
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|                  | 3,911,216     | Oct. 7, 1975  | Bartek et al.    | 178/22             |              |
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|  | Filing Date:<br>June 7, 1995                             | Group:                   |
| <b>Title: Signal Processing Apparatus<br/>and Method</b> |  |                          |

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|------------------|---------------|---------------|--------------------|-----------------|--------------|
|                  | 3,916,091     | Oct. 28, 1975 | Kirk, Jr. et al.   | 178/5.1         |              |
|                  | 3,919,462     | Nov. 11, 1975 | Hartung et al.     | 178/5.1         |              |
|                  | 3,921,151     | Nov. 18, 1975 | Guanella           | 340/172.5       |              |
|                  | 3,924,187     | Dec. 2, 1975  | Dormans            | 325/52          |              |
|                  | 3,934,079     | Jan. 20, 1976 | Barnhart           | 178/5.1         |              |
|                  | 3,936,593     | Feb. 3, 1976  | Aaronson et al.    | 178/5.1         |              |
|                  | 3,936,594     | Feb. 3, 1976  | Schubin et al.     | 178/5.1         |              |
|                  | 3,936,595     | Feb. 3, 1976  | Yanagimachi et al. | 178/5.6         |              |
|                  | 3,943,447     | Mar. 9, 1976  | Shomo, III         | 325/308         |              |
|                  | 3,947,882     | Mar. 30, 1976 | Lightner           | 360/92          |              |
|                  | 3,949,313     | Apr. 6 1976   | Tamada et al.      | 329/106         |              |
|                  | 3,956,615     | May 11, 1976  | Anderson et al.    | 235/61.7B       |              |
|                  | 3,970,790     | July 20, 1976 | Guanella           | 179/1.5S        |              |
|                  | 3,975,583     | Aug. 17, 1976 | Meadows            | 175/5.6         |              |
|                  | 3,978,449     | Aug. 31, 1976 | Sanders et al.     | 340/146.1       |              |
|                  | 3,987,398     | Oct. 19, 1976 | Fung               | 325/309         |              |
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|                  | 3,997,718     | Dec. 14, 1976 | Ricketts et al.    | 178/6.8         |              |
|                  | 4,024,574     | May 17, 1977  | Nieson             | 358/117         |              |
|                  | 4,025,851     | May 24, 1977  | Hazelwood et al.   | 325/31          |              |
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|------------------|---------------|----------------|--------------------|--------------------|--------------|
|                  | 4,025,948     | May 24, 1977   | Loshin             | 358/122            |              |
|                  | 4,031,548     | June 21, 1977  | Kato et al.        | 358/188            |              |
|                  | 4,048,619     | Sept. 13, 1977 | Forman, Jr. et al. | 340/154            |              |
|                  | 4,049,906     | Sept. 20, 1977 | Hafner et al.      | 178/2C             |              |
|                  | 4,054,911     | Oct. 18, 1977  | Fletcher et al.    | 358/141            |              |
|                  | 4,058,830     | Nov. 15, 1977  | Gulnet et al.      | 358/86             |              |
|                  | 4,068,264     | Jan. 10, 1978  | Pires              | 358/122            |              |
|                  | 4,079,419     | Mar. 14, 1978  | Siegle et al.      | 358/193            |              |
|                  | 4,081,612     | Mar. 28, 1978  | Hafner             | 179/15BA           |              |
|                  | 4,081,753     | Mar. 28, 1978  | Miller             | 325/396            |              |
|                  | 4,081,831     | Mar. 28, 1978  | Tang et al.        | 358/114            |              |
|                  | 4,091,417     | May 23, 1978   | Nieson             | 358/117            |              |
|                  | 4,104,486     | Aug. 1, 1978   | Martin et al.      | 179/2              |              |
|                  | 4,107,735     | Aug. 15, 1978  | Frohbach           | 358/84             |              |
|                  | 4,112,464     | Sept. 5, 1978  | Gulf et al.        | 358/122            |              |
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|                  | 4,115,807     | Sept 19, 1978  | Pires              | 358/122            |              |
|                  | 4,120,030     | Oct. 10, 1978  | Johnstine          | 364/200            |              |
|                  | 4,130,833     | Dec. 19, 1978  | Choenet            | 358/122            |              |
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|                  | 4,138,726     | Feb. 6, 1979   | Girault et al.     | 364/521            |              |

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|------------------|---------------|----------------|-----------------|--------------------|--------------|
|                  | 4,160,120     | July 3, 1979   | Barnes et al.   | 178/22             |              |
|                  | 4,161,751     | July 17, 1979  | Ost             | 358/114            |              |
|                  | 4,163,254     | July 31, 1979  | Block et al.    | 358/122            |              |
|                  | 4,163,255     | July 31, 1979  | Pires           | 358/122            |              |
|                  | 4,168,396     | Sept. 18, 1979 | Best            | 178/22             |              |
|                  | 4,170,782     | Oct. 9, 1979   | Miller          | 358/84             |              |
|                  | 4,171,513     | Oct. 16, 1979  | Otey et al.     | 325/32             |              |
|                  | 4,172,213     | Oct. 23, 1979  | Barnes et al.   | 178/22             |              |
|                  | 4,186,413     | Jan. 29, 1980  | Mortimer        | 358/146            |              |
|                  | 4,196,310     | Apr. 1, 1980   | Forman et al.   | 178/22             |              |
|                  | 4,200,770     | Apr. 29, 1980  | Hellman et al.  | 178/22             |              |
|                  | 4,200,913     | Apr. 29, 1980  | Kuhar et al.    | 364/900            |              |
|                  | 4,205,343     | May 27, 1980   | Barrett         | 358/147            |              |
|                  | 4,213,124     | July 15, 1980  | Barda et al.    | 340/706            |              |
|                  | 4,215,366     | July 29, 1980  | Davidson        | 358/124            |              |
|                  | 4,215,370     | July 29, 1980  | Kirk, Jr.       | 358/146            |              |
|                  | 4,225,884     | Sept. 30, 1980 | Block et al.    | 358/122            |              |
|                  | 4,225,967     | Sep. 30, 1980  | Miwa et al.     | 455/68             |              |
|                  | 4,230,990     | Oct. 28, 1980  | Lert, Jr et al. | 455/67             |              |
|                  | 4,232,193     | Nov. 4, 1980   | Gerard          | 179/15R            |              |
|                  | 4,236,217     | Nov. 25, 1980  | Kennedy         | 364/483            |              |

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|------------------|---------------|----------------|------------------|-----------------|---------------|
|                  | 4,237,484     | Dec. 2, 1980   | Brown et al.     | 358/142         |               |
|                  | 4,245,245     | Jan. 13, 1981  | Matsumoto et al. | 358/122         |               |
|                  | 4,247,106     | Jan. 27, 1981  | Jeffers et al.   | 273/85G         |               |
|                  | 4,250,524     | Feb. 10, 1981  | Tomizawa         | 358/122         |               |
|                  | 4,253,114     | Feb. 24, 1981  | Tang et al.      | 358/114         |               |
|                  | 4,253,157     | Feb. 24, 1981  | Kirschner et al. | 364/900         |               |
|                  | 4,262,329     | Apr. 14, 1981  | Bright et al.    | 364/200         |               |
|                  | 4,264,924     | Apr. 28, 1981  | Freeman          | 358/86          |               |
|                  | 4,264,925     | Apr. 28, 1981  | Freeman et al.   | 358/86          |               |
|                  | 4,266,243     | May 5, 1981    | Shutterly        | 358/121         |               |
|                  | 4,275,411     | June 23, 1981  | Lippel           | 358/13          |               |
|                  | 4,283,602     | Aug. 11, 1981  | Adams et al.     | 179/1.5R        |               |
|                  | 4,284,976     | Aug. 18, 1981  | Gable et al.     | 340/147         |               |
|                  | 4,286,281     | Aug. 25 1981   | Suzuki           | 358/4           |               |
|                  | 4,287,592     | Sept. 1, 1981  | Paulish et al.   | 370/88          |               |
|                  | 4,288,809     | Sept. 8, 1981  | Yabe             | 358/12          |               |
|                  | 4,290,141     | Sept. 15, 1981 | Anderson et al.  | 455/2           |               |
|                  | 4,290,142     | Sept. 15, 1981 | Schnee et al.    | 455/3           |               |
|                  | 4,292,650     | Sept. 29, 1981 | Henderickson     | 358/173         |               |
|                  | 4,295,223     | Oct. 13, 1981  | Shutterly        | 455/72          |               |
|                  | 4,302,771     | Nov. 24, 1981  | Gargini          | 358/86          | July 23, 1980 |

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|------------------|---------------|---------------|--------------------|-----------------|---------------|
|                  | 4,304,990     | Dec. 8, 1981  | Atalla             | 235/380         | Feb. 4, 1980  |
|                  | 4,305,101     | Dec. 8, 1981  | Yarbrough et al.   | 360/69          | Apr. 16, 1979 |
|                  | 4,305,131     | Dec. 8, 1981  | Best               | 364/521         |               |
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|  | Filing Date:<br>June 7, 1995                      | Group:                   |

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\* - If pertinent

\*\*\* - Claims priority from parent application filed prior to Nov. 3, 1981

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|  | Applicants<br>John C. Harvey and James W. Cuddihy |                         |
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